

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Estimate Cost Rs. **1990000.00**

Name of Work: Detailed Estimate for the work of Construction of Samudaya Bhavana near Manavarthi thota at pump house in ward No- 02 of yelahanka Sub division.

SI No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Civil Works								
1	KSRB 2-1.1: Earth work in surface excavation in hard soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, P. No. 5/ Item No. 2.2/ PWD SR 2014-15	cum							
	levelling and lowering		1	24.00	9.00	0.60	129.60		
							129.60	172.78	22392.00
	Basic Rate	163.00							
	Area Weightage @ 6%	9.78							
	Total	172.78							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2014-15	cum							
	for compound wall		1	23.00	0.75	1.00	17.25		
			1	4.00	0.75	1.00	3.00		
	all round foundation		2	12.00	0.75	1.00	18.00		
			2	8.00	0.75	1.00	12.00		
	for roof struss columns	2x6	12	1.00	1.00	1.00	12.00		
							62.25		
	Deduction	2x6	12	1.00	0.75	1.00	9.00		
							53.25	259.70	13829.00
	Basic Rate	245.00							
	Area Weightage @ 6%	14.70							
	Total	259.70							

SI No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 100-1 Loading and unloading of stone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumping turning for return trip excluding time for hauled and return trip complete as per specification item No 17.1 page 141 and KSRB M.100.4.1 cost of haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 141 (SR 2014-15)	cum							
			Vide Item No. 1				182.85	76.79	14040.00
	Basic Rate for loading and unloading	62.20							
	Basic Rate for Haulage upto 4.00 k.m = 1.28 X 2 X 4	10.24							
		72.44							
	Area Weightage @ 6%	4.35							
	Total	76.79							
4	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2014-15	Cum							
	for columns footings	2x6	12	1.00	1.00	0.15	1.80		
	for ssm foundation		2	12.00	0.75	0.15	2.70		
			2	8.00	0.75	0.15	1.80		
	platform		1	13.00	7.00	0.15	13.65		
	balance platform		1	9.00	8.00	0.15	10.80		
	foundation for compound wall		1	23.00	0.75	0.10	1.73		
			1	4.00	0.75	0.10	0.30		
							32.78		
	Deduction	2x6	12	1.00	0.75	0.10	0.90		
							31.88	4757.28	151638.00
	Basic Rate	4488.00							
	Area Weightage @ 6%	269.28							
	Total	4757.28							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc. including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for columns footings	2x6	12	0.90	0.90	0.90	8.75		
	for ssm foundation		2	12.00	0.45	0.10	1.08		
			2	8.00	0.45	0.10	0.72		
	platform		1	13.00	7.00	0.10	9.10		
			1	9.00	8.00	0.10	7.20		
	foundation for compound wall		1	23.00	0.45	0.10	1.04		
	compound wall coping		2	23.00	0.30	0.10	1.38		
			2	8.00	0.30	0.10	0.48		
							29.74	5952.96	177059.00
	Basic Rate	5616.00							
	Area Weightage @ 6%	336.96							
	Total	5952.96							
6	KSRB 5.2.3 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2014-15	Cum							
	for compound wall		1	23.00	0.60	0.60	8.28		
			1	4.00	0.60	0.60	1.44		
	all round		2	12.00	0.60	0.60	8.64		
			2	8.00	0.60	0.60	5.76		
							24.12	3610.36	87082.00
	Basic Rate	3406.00							
	Area Weightage @ 6%	204.36							
	Total	3610.36							

SI No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 5 3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2014-15	Cum							
	for compound wall		1	23.00	0.45	0.40	4.14		
			1	4.00	0.45	0.40	0.72		
			2	12.00	0.45	0.20	2.16		
	all round		2	8.00	0.45	0.20	1.44		
							8.46	4458.36	37718.00
	Basic Rate	4206.00							
	Area Weightage @ 6%	252.36							
	Total	4458.36							
8	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1 PWD SR 2014-15	sqm							
			2	23.00		0.400	18.40		
			2	4.00		0.400	3.20		
			2	12.00		0.400	9.60		
			2	8.00		0.400	6.40		
							37.60	90.10	3388.00
	Basic Rate	85.00							
	Area Weightage @ 6%	5.10							
	Total	90.10							
9	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, No. 6/ Item No. 2.10/ PWD SR 2014-15	Cum							
			1	12.00	8.00	0.450	43.20		
							43.20	116.60	5037.00
	Basic Rate	110.00							
	Area Weightage @ 6%	6.60							
	Total	116.60							

SI No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
10	KSRB 4-6.6 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars, piers, post and struts, circular or curved in plan including cost of all materials, labour complete as per specifications. Specification NO KBS 4 6 2 Page No. 17/ Item No. 4.33/ PWD SR 2014-15	sqm							
	columns	2x4	8	0.30		3.000	7.20		
	footings	12x4	48	0.90		0.900	38.88		
							46.08	874.50	40297.00
	Basic Rate	825.00							
	Area Weightage @ 6%	49.50							
	Total	874.50							
11	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27/ PWD SR 2014-15	sqm							
	wall		1	23.00		2.00	46.00		
			1	4.00		2.00	8.00		
	pillers	1x10	10	0.40		2.00	8.00		
							62.00	975.20	60462.00
	Basic Rate	920.00							
	Area Weightage @ 6%	55.20							
	Total	975.20							
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2014-15	Quintal		8.75					
	65kg/cum		0.650	8.75			5.69		
							5.69	7690.09	43727.00
	Basic Rate	7254.80							
	Area Weightage @ 6%	435.29							
	Total	7690.09							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRB 15.3.1 : Providing 12mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications. Page No. 122/ Item No. 15.11/ PWD SR 2014-15								
	internal plastering	sqm							
	pillers	1x2	2	23.00		2.00	92.00		
			1	10.00		2.00	20.00		
	existing compound wall	1x2	2	4.00		2.00	16.00		
			1	23.00		3.50	80.50		
	Basic Rate	133.00					208.50	140.98	29394.00
	Area Weightage @ 6%	7.98							
	Total	140.98							
14	KSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. with primer, page No.114 item No.15.53.2/PWD SR 2014-15								
	qty same as internal wall plastering						208.50		
	Basic Rate	75.00					208.50	79.50	16576.00
	Area Weightage @ 6%	4.50							
	Total	79.50							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	Fabricating supplying and erecting M.S. Tubular Truss of span upto 10m bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided all the members are welded together with 6mm gusset plate as per drawing. The entire truss is anchored in RCC column by using 4Nos of M.S anchor bolts at each support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening, pacing in position of M.S angle and welding wherever necessary, and applying one of red oxide primer coat to all the members including cost of all materials, labour charges, and higher charges of mechanised for cutting welding, grinding and erection equipments, with all lead and lift, transportation, etc, complete as per specification. Page No. 45/1 No. 7.29/ PWD SR 2016-17	Kgs							
	30cm base square plate 10mm thick x 2Nos for each columns = 10 x 2 x 0.45 x 0.45 = 4.05 @ 93.60kgs/sq		4.05	93.60			379.08		
	30cm dia MS pipe 6mm thick for each columns = 7.60mt height x 10 Nos = 76 @ 46.50 kg/mtrs		76	46.50			3534.00		
	ISMC-125								
	10 Nos x 1.80 = 18.00 @ 5.6kg/mtrs		18	5.60			100.80		
	50mm dia MS Pipe medium grade 5Nos x 10.00 Mtrs @ 5.03kg/mtrs		50	5.03			251.50		
	50mm dia MS Pipe medium grade 5Nos x 10.00 Mtrs @ 5.03kg/mtrs		50	5.03			251.50		
	50mm dia MS Pipe medium grade 5Nos x 3.00 Mtrs @ 5.03kg/mtrs		15	5.03			75.45		
	50mm dia MS Pipe medium grade 5Nos x 1.50x Mtrs x 5.03kg/mtr = 37.72						37.72		
	20mm dia medium pipe 5x 50 Nos x 0.75 @ 5.03kg/mtrs		187.5	5.03			943.13		
	M.s Rectangular tubes (purlins) 1 Length = 35.00 kgs = 13x2.5 = 32.50 length x 35 kg per length = 1137 kgs						1137.00		
	2"x2" L Angle Clite 8x32x0.30 = 76.80 Mtrs for foundation 8x8x0.90 = 57.60+76.80 = Mtrs x 2.50		134.4	2.50			336.00		
	Basic Rate	110.00					7046.18	116.60	821584.00
	Area Weightage @ 6%	6.60							
	Total	116.60							

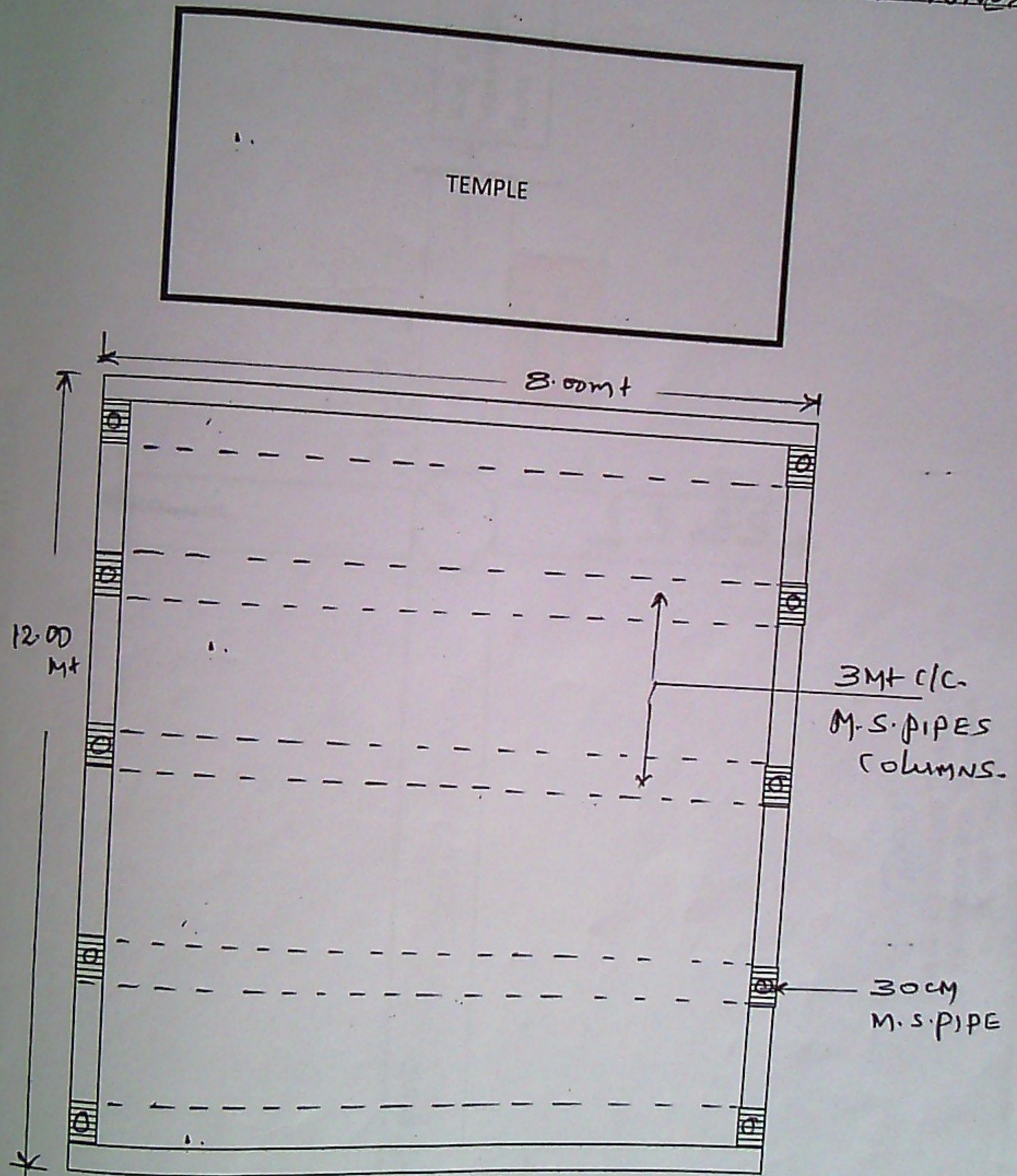
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	Wiring for lightin/power circuit using one of PVC insulated 1100v grade,multistrand copper conductor single core cable in open or consealed system of wiring.II Group B e) 6 sqmm (9/20)	Each	12				12	45.00	540.00
3	Groove Cutting : Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary a) 19/20mm dia 2mm thick (2/3)	Per Mtr	12				12	43.00	516.00
4	Supplying and fixing PVC/metal conduit accessories special type Junction Box a) 19/20mm junction box (3/5)	Each	6				6	18.00	108.00
	DEEP Junction Box a) 18/20 mm deep junction box	Each	12				12	29.00	348.00
5	32. Supplying and fixing metal fan box with round hook (32/11)	Each	6				6	72.00	432.00
6	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. (6/3) b) 12"x9"x3" (300x228x76mm)	Each	4				4	80.00	320.00
7	Supplying and fixing of modular switch/Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate. II using group B" Meterial (8/18) e) 600 watts dimmer	Each	6				6	390.00	2340.00
	g) 16 Amps one way switch	Each	6				6	115.00	690.00
	J) 6/16 Amps Universal Socket	Each	6				6	170.00	1020.00
8	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F.Screws. (22/10)	sq.cm	1300				1300	0.22	286.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	Supplying surface mounted type mirror optic luminaries for single/twin 36/40 watts fluorescent lamps cross rising of stove enameled deep coloured M.S. low profile housing complete with all accessories and high purity anodized aluminium reflector assembling along with cross louvers including necessary fluorescent tubes with Energy saving Electronic Ballast Etc. complete set II 2x4' 36/40 watts B) group B' (5/17)	Each	6				6	2500.00	15000.00
10	supplying capacitor type ceiling fan complete with down blades, shackle, canopies etc for operation on 230 Volts, 50 cycles, single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved 148" Sweep (1200 mm) a) Regular Model (23/23)	Each	4				4	1800.00	7200.00
11	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for e for light duty suitable for operate on 230 V 50 Hz, AC Supply... a) Group A' (21/22)	Each	4				4	1250.00	5000.00
12	Supply patty type fluorescent tube light fitting of 4-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, strter, locking type press contact holders mounted on double fold type sheet base fully wired for use on 230 volts A C supply including 1NO 4-36/40 watts fluorescent tube.) (2/16) Group A	Each	4				4	360.00	1440.00
13	Fixing all types and all capacities fluorescent/false ceiling/spot light/CFL fitting indoor on the wall/ ceiling/rafters/griders using 23/0.0076" twin twisted PVC insulated wires, required nos of blocks and clamps (if required) a) On wall/ ceiling/ Rafter/Gridders (7/29)	Each	8				8	105.00	840.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Fixing one ceiling/wall mounting fan of all capacities and all types to the exiting S hook with fan regular to the exiting board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (8/29)	Each	6				6	105.00	630.00
15	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts 5 amps ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire of approved Make (12/29)	Each	2				2	310.00	620.00
16	Supplying, fixing wiring earth electrode for grounding conduits. I.C cutouts and other equipment on the meter board using 40mm dia 2.90 thick GI 2.5 mtr long buried in a pit should be filled with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduit etc is to be established through GI wire of size as per ISI specifications 7.33 of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes 12mm dia (68/01)	Each	4				4	1950.00	7800.00
17	supplying and mixing miniature circuit breakers on exiting MCB distribution boards using necessary fixing materials and C type curve, indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required. a) 32 Amps SP 1) Group A (12/36)	Each	4				4	195.00	780.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	Energy meter box. Supply and instalation/fixing/ provision of outdoor type thermoplastic modular panel enclosures with transperent polycarbonate lid shock proof,coreosion proof having internally embedded gasket on both lid and flap suitable to fix. Single phase/three phase energy meter in suitable base plate and having a provision fo fuse/ MCB cutout with suitable transperent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. a) 300 x 300 x 214 mm (40/42)	Each	3				3	3055.00	9165.00
19	Supplying of LT UG cable having aluminium conductor PVC insulated,sheathed,galvanized,steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV class A PVC Cabled)4 core 16 sqmm (68/04)	Per Mtr	10				10	150.00	1500.00
20	Labour charges for laying of 1.1KV Class UG cable in existing trench GI pipe stoneware pipe/on wall/on pole as required a) 6sqmm to 16 10 sqmm (5/69)	R.Mtr	10				10	8.00	80.00
21	Digging of trench of 0.6mm deep * 0.50 mtr wide refilling the trench to the required ground level and consolidating etc. complete.(As per Civil SR KSRB 1-2p-7)a. in Ordinary soil (6/70)	R.Mtr	10				10	40.00	400.00
22	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not lessthan 3.25mm on pole/wall/drain crossing eith necessary clamping arrangements for UG cable of 1.1 KV class B.50 mm (9/70)	Mtr	10				10	260.00	2600.00

NAME OF WORK:- CONSTRUCTION OF SAMUDAYABHAVAN.
NEAR MANAVARTAI THOTA @ PUMPHOUSE IN WING 02



PLAN-

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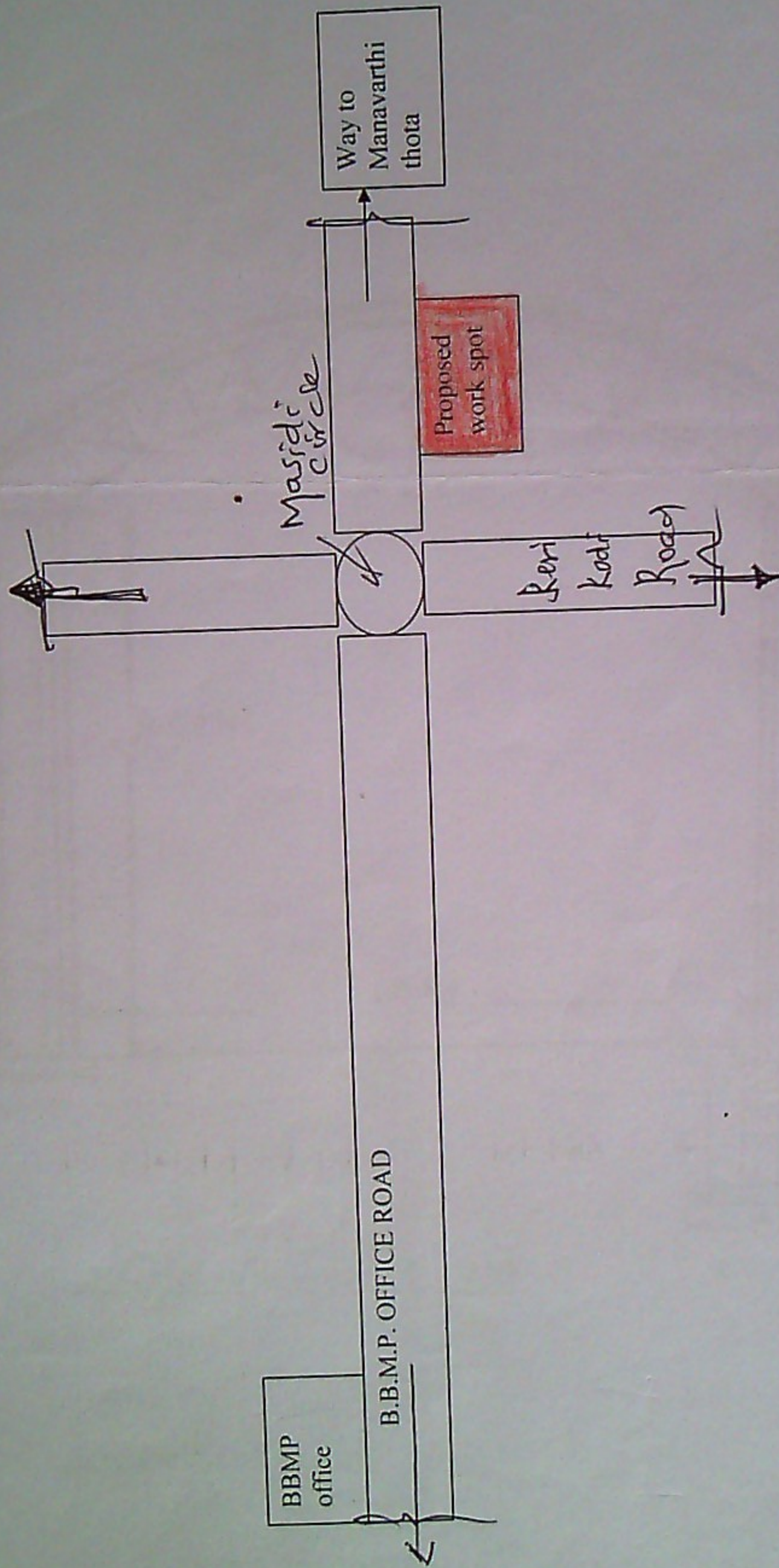


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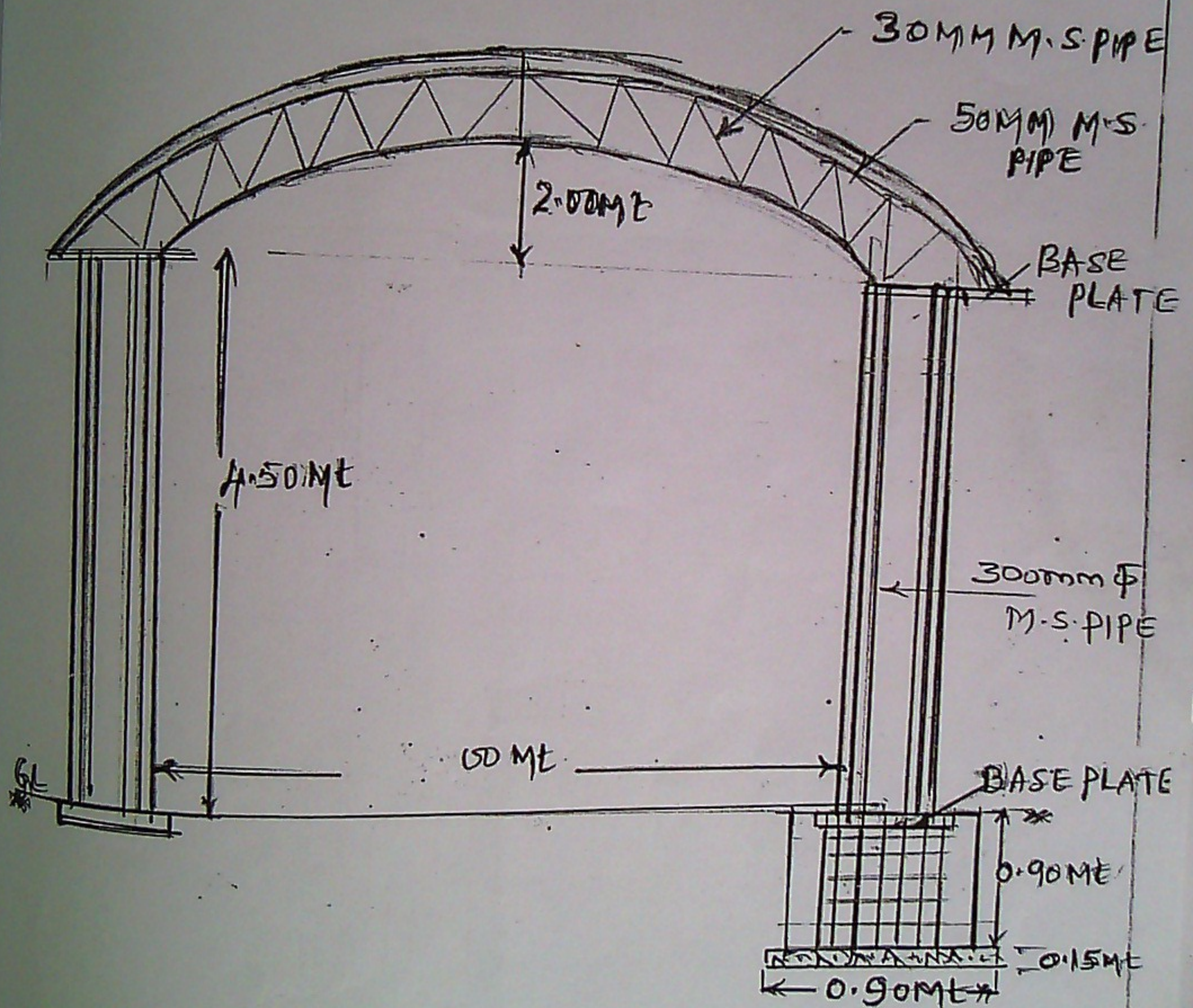
Asst. Executive Engineer
Yalahanka Sub. Division
(BBMP Ysk. Zn)

NAME OF WORK: Construction of Samudaya Bhavana near Manavarthi thota at pump house
in ward No- 02 of yelahanka Sub division



Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Ramrajeevaiah



CROSS SECTION

Ramarejan AR



Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore



Rameshjeevzh

Rameshjeevzh

Maped by:

SKYGROUP & CURIPe

Survey Number
Village Boundary

Overhead Tank
Church
Mosque
Temple

LAYOUT MAP OF YELAHANKA

INDEX

□ proposed
Work Spot




Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
Yelahanka, Bangalore

7.05 Sq Kms